

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,605,952 B2  
APPLICATION NO. : 10/761574  
DATED : October 20, 2009  
INVENTOR(S) : Pai

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

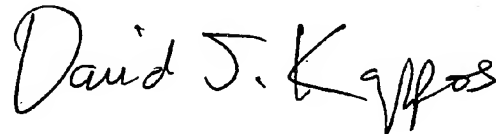
Delete the title page and substitute therefore the attached title page showing corrected illustrative FIG 7(a).

Column 7

Line 21, delete "light transmissible" and insert --light-transmissible--

Signed and Sealed this

Twenty-second Day of December, 2009

A handwritten signature in black ink, reading "David J. Kappos". The signature is written in a cursive, flowing style with a large initial 'D' and 'K'.

David J. Kappos  
*Director of the United States Patent and Trademark Office*

(12) **United States Patent**  
**Pai**

(10) **Patent No.:** **US 7,605,952 B2**  
(45) **Date of Patent:** **Oct. 20, 2009**

(54) **EXPOSURE CONTROL DEVICE**

(76) **Inventor:** **Nien-Hua Pai**, 669, Ruey Kuang Road,  
Neihu 114, Taipei (TW) 114

(\*) **Notice:** Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 1042 days.

(21) **Appl. No.:** **10/761,574**

(22) **Filed:** **Jan. 21, 2004**

(65) **Prior Publication Data**

US 2005/0001925 A1 Jan. 6, 2005

(30) **Foreign Application Priority Data**

Jul. 4, 2003 (TW) ..... 92118420 A

(51) **Int. Cl.**  
**H04N 1/04** (2006.01)

(52) **U.S. Cl.** ..... **358/474; 358/471; 358/475;**  
358/514

(58) **Field of Classification Search** ..... 358/474,  
358/514, 471, 475, 509, 487, 505, 506; 399/51,  
399/52, 207; 355/67; 348/E9.01, 230.1;  
362/310, 297; 250/491.1

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

4,831,418 A \* 5/1989 Ito et al. .... 399/52

4,928,172 A \* 5/1990 Uehara et al. .... 348/230.1  
4,933,754 A \* 6/1990 Reed et al. .... 358/506  
4,958,189 A \* 9/1990 Yoshida ..... 399/52  
6,037,584 A \* 3/2000 Johnson et al. .... 358/514  
6,175,405 B1 \* 1/2001 Kawai ..... 355/67  
6,621,600 B1 \* 9/2003 Boyd et al. .... 358/474  
6,665,099 B1 \* 12/2003 Lai ..... 358/475  
6,734,903 B1 \* 5/2004 Takeda et al. .... 348/E9.01  
6,813,046 B1 \* 11/2004 Gindele et al. .... 358/505  
7,064,872 B1 \* 6/2006 Jeran ..... 358/475  
2003/0164992 A1 \* 9/2003 Sakaguchi ..... 358/475  
2005/0231768 A1 \* 10/2005 Hsu et al. .... 358/474

**FOREIGN PATENT DOCUMENTS**

JP 55-111969 8/1980

\* cited by examiner

*Primary Examiner*—Houshang Salaipour

(74) *Attorney, Agent, or Firm*—Workman Nydegger

(57) **ABSTRACT**

An exposure control device is used for adjusting light amount received by a focusing device and a photoelectric conversion device of an image scanning apparatus. The exposure control device includes a control unit and a light-transmission adjusting device. The control unit asserts a control signal according to a certain condition of the image scanning apparatus. The light-transmission adjusting device is arranged in the light path to the focusing device and the photoelectric conversion device and changes an effective light-transmission area thereof in response to the control signal to adjust light amount passing therethrough.

**14 Claims, 10 Drawing Sheets**

